CURRICULUM VITAE

ARISTOTELIS E. CHARALAMPAKIS
Civil Engineer NTUA, MSc/DIC, PhD

Athens, October 2022

Contents

I.   Curriculum Vitae

Dr. Aristotelis E. Charalampakis holds a Diploma degree in Civil Engineering from the National Technical University of Athens (1999, major field Structural Mechanics, grade: 8.28/10, graduated 11th out of 216 students), a M.Sc. degree in Civil Engineering from the Imperial College of Science and Technology of London (2000, MSc/DIC in "Concrete structures" with distinction, 1st in class), as well as the *Ronald Stewart Jenkins Memorial Prize* "for excellence in structural mechanics" (2000). He has worked as a self-employed engineer and as an active programmer in TechnoLogismiki, a software house he co-founded in 2002, developing and maintaining more than 25 computer programs for Engineers. During the period 2004–2009, he completed his PhD entitled "Inelastic dynamic analysis of structures using Bouc–Wen hysteretic models" at the N.T.U.A. under the supervision of professor V. K. Koumousis.

His scientific interests include: Dynamic analysis and seismic design of structures; Applications of Machine Learning in Civil Engineering; Hysteretic models (response, dissipated energy, system identification); Optimization. He has authored or co-authored more than **40** scientific publications (**26** in international peer reviewed journals), and refereed for over **20** international journals. His work has attracted over **850** citations (Google Scholar). He has participated in **3** funded research projects. He is a review editor in the following international scientific journals: Frontiers in Built Environment: Earthquake Engineering and Frontiers in Built Environment: Computational Methods in Structural Engineering.

Dr. Charalampakis is a member of the following professional and scientific associations: Greek Technical Chamber, the Association of Greek Civil Engineers, the Hellenic Society for Theoretical & Applied Mechanics (HSTAM), the Hellenic Association for Earthquake Engineering (HAEE).

A.   General Information

Surname	Charalampakis
Name	Aristotelis
Father's name	Efstratios
Place of birth	Athens, Greece
Date of birth	18/02/1977
Marital status	Married with 1 child
Military service	Completed (Army Corps of Engineers)
Home address	10, I. Metaxa str, 13451, Kamatero, Athens, Greece
Phone numbers	+30 210 23 87 581 (home), +30 6972 00 1993 (mobile)

email	achar@uniwa.gr
	aristotelis.charalampakis@gmail.com
website	http://www.charalampakis.com
ORCiD	0000-0001-9072-6259

B. Education

2004–2009	*Ph.D.*
	National Technical University of Athens (NTUA), Greece.
	Thesis: "Inelastic dynamic analysis of structures using Bouc–Wen hysteretic models". Advisor: Professor V. K. Koumousis.
1999–2000	*MSc in Concrete Structures.*
	Imperial College, UK (rank: 1st in class, with distinction).
	Thesis: "Short and long–term deformation and stressing of slender cylindrical concrete piers due to solar heating". Advisor: Professor G. L. England.
2000	*Diploma of Imperial College – DIC.*
	Imperial College, UK.
1994–1999	*5-year Degree in Structural Civil Engineering.*
	National Technical University of Athens (NTUA), Greece (grade 8.28/10, rank 11th/216).
	Thesis: «Design, static and dynamic analysis of buildings made exclusively of concrete shear walls" (grade: 10/10). Advisor: Professor V. K Koumousis.
1994	Admitted by the faculty of Civil Engineering of NTUA, rank: 22/150, 1st choice.
1994	Graduation from 4th Lyceum of Ilion (grade: 19.1/20).

C. Awards

| 2000 | *Ronald Stewart Jenkins Memorial Prize for Excellence in Structural Mechanics* |
| | Imperial College, UK. |

D. Foreign languages

English	Excellent (Cambridge Certificate of Proficiency in English, grade: A)
French	Good (Certificat de Langue Française, grade: Très Bien)

E. Online courses

2020	[Machine Learning](#) (Stanford University, grade: 100%)
2020	[Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning](#) (DeepLearning.AI, grade: 100%)

F. Academic career

2015–2016	*Assistant Professor* Department of Civil Engineering. Gediz University, Izmir, Turkey.
2010–2018	*Adjunct Lecturer* Department of Civil Engineering. Piraeus University of Applied Sciences (PUAS) (http://civil.teipir.gr).
2018–	*Adjunct Lecturer* Department of Civil Engineering. University of West Attica (http://uniwa.gr).
2019–	*Adjunct Lecturer* School of Applied Mathematical and Physical Sciences National Technical University of Athens (NTUA), Greece (http://www.ntua.gr).
2014–	*Postdoctoral researcher* Laboratory of Transportation Engineering (LoTE) of the School of Rural and Surveying Engineering of the National Technical University of Athens (NTUA), Greece (http://lte.survey.ntua.gr/).
2010–2015	*Adjunct Lecturer* MSc in Structural Design and Construction Management (in English). Piraeus University of Applied Sciences (PUAS), Greece /Kingston

	University, UK.
2016–2022	*Adjunct Lecturer* MSc in Civil Engineering and the Built Environment. AMC Metropolitan College, Athens, Greece / University of Portsmouth, UK.
2018–	*Adjunct Lecturer* BEng Civil Engineering and Construction. AMC Metropolitan College, Athens, Greece / University of East London, UK.
2004–2009	*Ph.D. Candidate* National Technical University of Athens (NTUA), Greece (http://www.ntua.gr).

G. Professional career

2002–	Co-founder, co-owner and active programmer with Technologismiki (www.technologismiki.com), a software house which develops and maintains more than 25 commercial programs for engineers.
2002–	Self-employed engineer and consultant. Numerous projects completed and delivered in the private sector.
2000–2006	Designer of new products for ZS Charalampakis SA (www.zs-charalampakis.gr), mainly steel components including CAD and CNC programming.
2000–2001	Project supervision in Samos island as a soldier in the Greek Army Corps of Engineers.
1998–2006	Quality assurance supervisor with ZS Charalampakis SA (www.zs-charalampakis.gr), with responsibilities that include development of ISO 9001:1994 quality system and upgrade to the ISO 9001:2000 quality standard.

H. Member or professional and scientific communities

1. Greek Technical Chamber (TEE).

2. Association of Greek Civil Engineers (SPME).

3. Hellenic Society for Theoretical & Applied Mechanics (HSTAM).

4. Hellenic Association for Earthquake Engineering (HAEE).

II. Academic/research activities

A. Areas of scientific interest

<u>Dynamic analysis of structures</u>

- Mass-reduction seismic design of structures, e.g., using floating slabs.
  Related publications: C19, C23, D17, D18.

- Seismic response of structures equipped with linear and nonlinear mass damping systems.
  Related publications: C21, D19.

- Design of hysteretic nonlinear energy sinks with negative stiffness elements.
  Related publications: C15, C16, D16.

- Optimum design of beams and structures made of Functionally Graded Materials (FGM) under vibration.
  Related publications: C13, D13.

- Estimation of fundamental period of vibration of masonry infilled RC frame structures.
  Related publications: C20.

- Rocking of structures.
  Related publications: C25.

<u>Machine Learning and applications in Civil Engineering</u>

- Design of R/C columns using ML techniques.
  Related publications: C22.

- Estimation of fundamental period of vibration of masonry infilled RC frame structures.
  Related publications: C20.

- Comparison of Machine Learning algorithms for the prediction of the response of laminated composite beams.
  Related publications: C24.

<u>Optimization</u>

- System identification and parameter estimation of Bouc-Wen hysteretic models with heuristic algorithms.
  Related publications: A1, C2, C6, C9, D4, D5, D8, D10, D11.

- Analytical solutions for the optimum design of trusses using Cylindrical Algebraic Decomposition.
  Related publications: C14, D14.

- Improvement of the performance of Genetic Algorithms using memory.
  Related publications: C8, D12.

- Analysis and design of laminated composite beams based on a refined higher-order theory.
  Related publications: C25.

Ultimate strength analysis of sections

- Ultimate strength analysis of arbitrary cross sections (R/C, steel, composite) under biaxial bending and axial force.
  Related publications: A1, C1, D1, D2.

- Plastic analysis of steel angle sections.
  Related publications: C4, C7.

- Analysis and design of laminated composite beams based on a refined higher-order theory.
  Related publications: C25.

Hysteretic models

- Analysis of the response and the dissipated energy of Bouc-Wen hysteretic model and applications in the dynamic analysis of structures.
  Related publications: A1, C3, C5, C12, D6, D7, D9.

B.   Teaching experience

Assistant Professor, Department of Civil Engineering, Gediz University, Izmir, Turkey (undergraduate courses taught in English).

1.   Academic period 2015-2016, fall semester:

Steel Structures I,

Design of Steel Structures.

2.   Academic period 2015-2016, spring semester:

Reinforced Concrete II,

Steel Structures II,

Design of Reinforced Concrete Structures.

Civil Engineering Project.

Adjunct Lecturer at Piraeus University of Applied Sciences (PUAS), Greece / Kingston University, London, UK (postgraduate courses for the MSc in Structural Design and Construction Management, taught in English)

1.   Academic period 2011-2012:

Modern methods of structural analysis,

Design of structural steel and composite construction.

2. Academic period 2012-2013:

Modern methods of structural analysis,

Design of structural steel and composite construction.

3. Academic period 2013-2014:

Modern methods of structural analysis,

Design of structural steel and composite construction.

4. Academic period 2014-2015:

Structural design of buildings in concrete and steel.

Adjunct Lecturer at Piraeus University of Applied Sciences (PUAS), Greece, (undergraduate courses taught in Greek).

1. Academic period 2010-2011, fall semester:

Structural Mechanics I (Theory, 4 hours/week),

Composite Structures (Theory, 4 hours/week).

2. Academic period 2010-2011, spring semester:

Structural Mechanics I (Theory, 4 hours/week),

Composite Structures (Theory, 4 hours/week).

3. Academic period 2011-2012, fall semester:

Composite Structures (Theory, 4 hours/week).

4. Academic period 2011-2012, spring semester:

Structural Mechanics I (Theory, 4 hours/week),

Composite Structures (Theory, 4 hours/week).

5. Academic period 2012-2013, fall semester:

Composite Structures (Theory, 4 hours/week),

Strength of Materials (Laboratories, 4 hours/week).

6. Academic period 2012-2013, spring semester:

Structural Mechanics I (Theory, 4 hours/week),

Structural Mechanics I (Laboratories, 4 hours/week, complementary work).

7. Academic period 2013-2014, fall semester:

Composite Structures (Theory, 4 hours/week).

8. Academic period 2013-2014, spring semester:

Structural Mechanics I (Theory, 4 hours/week),

Structural Mechanics I (Laboratories, 3 hours/week, complementary work).

9. Academic period 2014-2015, fall semester:

Composite Structures (Theory, 4 hours/week),

Static Analysis II (Theory, 2 hours/week).

10. Academic period 2014-2015, spring semester:

Structural Mechanics I (Theory, 4 hours/week),

Structural Mechanics I (Labs, 10 hours/week).

11. Academic period 2015-2016, fall semester:

Composite Structures (Theory, 10 hours/week).

12. Academic period 2015-2016, spring semester:

Structural Mechanics I (Theory, 10 hours/week).

13. Academic period 2016-2017, fall semester:

Composite Structures (Theory, 10 hours/week),

Strength of Materials (Laboratories, 10 hours/week).

14. Academic period 2016-2017, spring semester:

Structural Mechanics I (Theory, 10 hours/week),

Structural Mechanics I (Laboratories, 20 hours/week).

15. Academic period 2017-2018, fall semester:

Composite Structures (Theory, 10 hours/week),

Strength of Materials (Laboratories, 10 hours/week).

16. Academic period 2017-2018, spring semester:

Structural Mechanics I (Theory, 10 hours/week),

Structural Mechanics I (Laboratories, 20 hours/week).

Adjunct Lecturer at University of West Attica (UNIWA), Greece, Department of Civil Engineering (undergraduate courses taught in Greek).

1. Academic period 2018-2019, fall semester:

   Dynamics of Solids (Theory, 8 hours/week).

2. Academic period 2018-2019, spring semester:

   Mechanics of Deformable Bodies (Theory, 4 hours/week).

   Strength of Materials (Theory, 4 hours/week).

3. Academic period 2019-2020, fall semester:

   Dynamics of Solids (Theory, 4 hours/week).

   Strength of Materials (Theory, 4 hours/week).

4. Academic period 2019-2020, spring semester:

   Mechanics of Deformable Bodies (Theory, 4 hours/week).

5. Academic period 2020-2021, fall semester:

   Dynamics of Solids (Theory, 4 hours/week).

   Strength of Materials (Theory, 4 hours/week).

6. Academic period 2020-2021, spring semester:

   Mechanics of Deformable Bodies (Theory, 4 hours/week).

7. Academic period 2021-2022, fall semester:

   Dynamics of Solids (Theory, 4 hours/week).

   Strength of Materials (Theory, 4 hours/week).

8. Academic period 2021-2022, spring semester:

   Mechanics of Deformable Bodies (Theory, 4 hours/week).

9. Academic period 2022-2023, fall semester:

   Dynamics of Solids (Theory, 4 hours/week).

   Strength of Materials (Theory, 4 hours/week).

Course supervision, Postgraduate course in the Applied Computational Structural Mechanics, School of Pedagogical and Technological Education.

1. Academic period 2015-2016, spring semester:

Fuzzy logic, neural networks and metaheuristic algorithms (Theory, 2 hours/week).

Adjunct Lecturer at AMC Metropolitan College, Athens, Greece / University of Portsmouth, UK (postgraduate courses for the MSc Civil Engineering and the Built Environment, taught in English):

1. Academic period 2016-2017:

Civil engineering science.

2. Academic period 2017-2018:

Civil engineering science.

3. Academic period 2018-2019:

Civil engineering science.

4. Academic period 2019-2020:

Civil engineering science.

5. Academic period 2020-2021:

Civil engineering science.

6. Academic period 2021-2022:

Civil engineering science.

Adjunct Lecturer at AMC Metropolitan College, Athens, Greece / University of East London, UK (Undergraduate courses for the BEng Civil Engineering and Construction):

1. Academic period 2018-2019:

Analysis and design of structural elements.

2. Academic period 2019-2020:

Analysis and design of structural elements.

3. Academic period 2020-2021:

Analysis and design of structural elements.

4. Academic period 2021-2022:

Analysis and design of structural elements.

Assistant Lecturer, Hellenic Army Corps of Engineers (STEAMX).

1. Academic period 2019-2020:

   Operational Research – Optimization (Theory, 2 hours/week)

2. Academic period 2020-2021:

   Operational Research – Optimization (Theory, 2 hours/week)

   Mechanics of Fluids – Applied Hydraulics (Theory, 4 hours/week)

3. Academic period 2021-2022:

   Operational Research – Optimization (Theory, 2 hours/week)

   Mechanics of Fluids – Applied Hydraulics (Theory, 4 hours/week)

4. Academic period 2022-2023:

   Operational Research – Optimization (Theory, 2 hours/week)

   Fluid Mechanics – Applied Hydraulics (Theory, 4 hours/week)

Lecturer, Hellenic Army Technical Corps (STEATX).

1. Academic period 2021-2022:

   Mechanics I-II-III (Theory, 6 hours/week)

2. Academic period 2022-2023:

   Mechanics I-II-III (Theory, 6 hours/week)

Lecturer, Hellenic Military Geographical Service (GYS).

1. Academic period 2021-2022:

   Mechanics (Theory, 5 hours/week)

2. Academic period 2022-2023:

   Fluid Mechanics (Theory, 3 hours/week)

Adjunct Lecturer (407) at the School of Applied Mathematical and Physical Sciences, National Technical University of Athens, Greece:

1. Academic period 2019-2020, spring semester:

   Mechanics (School of Electrical and Computer Engineering).

   Mechanics (School of Chemical Engineering).

2. Academic period 2020-2021, spring semester:

   Mechanics (School of Electrical and Computer Engineering).

3. Academic period 2021-2022, spring semester:

    Mechanics (School of Electrical and Computer Engineering).

C. Teaching evaluations
The teaching evaluations since 2010 are available in the profile.

D. Supervision of theses
All supervisions were performed stand-alone, unless stated otherwise.

1. Kottari, A., (2009) "Generalized Bouc–Wen models in elastoplastic analysis of structures", Graduate thesis, Statics and Aseismic Research Laboratory, Department of Structural Engineering, School of Civil Engineering, National Technical University of Athens (NTUA), in Greek (co-supervision, advisor: Professor V. K. Koumousis).

2. Epitropoulos, K., (2012) "Optimum design of composite poles of outdoor media", Graduate thesis, Department of Civil Engineering, Piraeus University of Applied Sciences (PUAS) (in Greek).

3. Daravalis, D., (2012) "Strength evaluation of composite members according to the Eurocodes: Development of computational tools and parametric analyses", Graduate thesis, Department of Civil Engineering, Piraeus University of Applied Sciences (PUAS) (in Greek).

4. Kompotos, K., (2015) "Optimum design of composite members using evolutionary algorithms", Graduate thesis, Department of Civil Engineering, Piraeus University of Applied Sciences (PUAS) (in Greek).

5. Drogeja, B., (2016) "Optimization of large-scale steel office buildings using Differential Evolution", Graduation thesis, Gediz University, Izmir, Turkey.

6. Konneh, S., (2016) "Size optimization of steel truss bridge by method of Genetic Algorithm, with application of finite element analysis (FEA)", Graduation thesis, Gediz University, Izmir, Turkey.

7. Tek, B., (2016) "Discrete optimization of trusses using Differential Evolution", Graduation thesis, Gediz University, Izmir, Turkey.

8. Maggana, A., Papadaki, P., (2017) "Composite residential structures in Greece – a case study of a house in Cholargos, Athens, Greece" Graduate thesis, Department of Civil Engineering, Piraeus University of Applied Sciences (PUAS) (in Greek).

9. Faka, C., Kavallieratou, A., (2017) "Update of computational tools for the evaluation of the strength of composite members according to EC4 – optimization using Particle Swarm Optimization", Graduate thesis, Department of Civil Engineering, Piraeus University of Applied Sciences (PUAS) (in Greek).

10. Chatzidimitriou A.-C., (2017) "Structural and Cost Optimization of Industrial Steel Building in Greece", Postgraduate Thesis, AMC Metropolitan College.

11. Boumpas T.D. (2018) "Optimization of steel components and substructures according to Eurocode 3", Postgraduate Thesis, AMC Metropolitan College.

12. Benetatos, P. (2018) "Investigation of the effects of multiple repair procedures to S355J2 structural steel", Postgraduate Thesis, AMC Metropolitan College.

13. Katsiaounis, A. (2018) "Generic FEM Optimization Framework Using Metaheuristics", Postgraduate Thesis, AMC Metropolitan College.

E. Reviewer of international scientific journals

1. Mechanical Systems and Signal Processing, Elsevier.

2. Computers and Structures, Elsevier.

3. Journal of Vibration and Acoustics, Transactions of the ASME.

4. Journal of Mechanical Science and Technology, Springer.

5. International Journal of Non-Linear Mechanics, Elsevier.

6. Engineering Structures, Elsevier.

7. Journal of Computing in Civil Engineering, ASCE.

8. Advances in Structural Engineering, Multi-Science Publishing.

9. Advances in Engineering Software, Elsevier.

10. Inverse Problems in Science & Engineering, Taylor & Francis.

11. Applied Soft Computing, Elsevier.

12. Earthquake Engineering and Engineering Vibration, Springer.

13. Journal of Vibration and Control, Sage Journals.

14. Probabilistic Engineering Mechanics, Elsevier.

15. Materials, MDPI.

16. International Journal of Geomechanics, ASCE.

17. Archives of Mechanics, Polish Academy of Sciences.

18. Structural Engineering and Mechanics, An International Journal, TechnoPress.

19. Mechanics Based Design of Structures and Machines, An International Journal, Taylor & Francis.

20. Nonlinear Dynamics, Springer.

21. Frontiers in Built Environment: Computational Methods in Structural Engineering, by Frontiers.

22. Frontiers in Built Environment: Earthquake Engineering, by Frontiers.

23. Soil Dynamics and Earthquake Engineering, Elsevier.

F. Review editor in international scientific journals

1. Frontiers in Built Environment: Computational Methods in Structural Engineering, by Frontiers.

2. Frontiers in Built Environment: Earthquake Engineering, by Frontiers.

G. Participation in research programs

1. "Modern methods in seismic design of structures", 2005–2008, NTUA. Coordinator: Professor V. K. Koumousis (as Ph.D candidate). The following publications were made as part of the research program: C1, C2, C3, C5, 261, 262, 263, 264, 265, 266.

2. "Aristeia – Stochastic analysis and modeling of post-disaster transport network operations", 2012–2015, NTUA. Coordinator: Professor M. G. Karlaftis, Professor A. Stathopoulos (as post-doctoral researcher). The following publications were made as part of the research program: C10.

3. "Zero Emission Public Transport: Design Models and Decision Support System", 2020-, NTUA. Coordinator: Assoc. Prof. K. Kepaptsoglou. (as post-doctoral researcher). This is an ongoing project.

H. Organizer of minisymposia in international conferences

1. Mini-symposium "Response modification technologies and metamaterials in computational structural dynamics", at the 10th GRACM International Conference on Computational Mechanics (GRACM 2021), July 5 – 7, 2021, Athens, Greece. Organizers: **Aristotelis Charalampakis**, George Tsiatas, Panos Tsopelas.

III. Scientific publications

A. Doctoral theses

1. **Charalampakis, A. E.**, (2009) "Inelastic dynamic analysis of structures using Bouc–Wen hysteretic models", PhD thesis, Statics and Aseismic Research Laboratory, Department of Structural Engineering, School of Civil Engineering, National Technical University of Athens, April 2009 (supervisor: professor V. K. Koumousis).

B. Undergraduate/graduate theses

1. **Charalampakis, A. E.**, (1999) "Design, static and dynamic analysis of buildings made exclusively of concrete shear walls", Graduate thesis, Statics and Aseismic Research Laboratory, Department of Structural Engineering, School of Civil Engineering, National Technical University of Athens (supervisor: professor V. K. Koumousis).

2. **Charalampakis, A. E.**, (2000) "Short and long term deformation and stressing of slender cylindrical concrete piers due to solar heating", MSc dissertation, Imperial College, London, June 2000 (supervisor: professor G. L. England).

C. Publications in international scientific journals

1. **Charalampakis, A. E.**, Koumousis, V. K., "Ultimate strength analysis of composite sections under biaxial bending and axial load", Advances in Engineering Software, 39 (2008): 923–936, doi:10.1016/j.advengsoft.2008.01.007 (Ranked 3rd in the list of "Top 25 hottest articles" of the journal during the period Jul-Sep 2008).

2. **Charalampakis, A. E.**, Koumousis, V. K., "Identification of Bouc–Wen hysteretic systems by a hybrid evolutionary algorithm", Journal of Sound and Vibration, 314 (2008): 571–585, doi:10.1016/j.jsv.2008.01.018.

3. **Charalampakis, A. E.**, Koumousis, V. K., "On the response and dissipated energy of Bouc–Wen hysteretic model", Journal of Sound and Vibration, 309 (2008): 887–895, doi:10.1016/j.jsv.2007.07.080.

4. Vayas, I., **Charalampakis, A. E.**, Koumousis, V. K., "Inelastic resistance of angle sections subjected to biaxial bending and normal forces", Steel Construction, 2(2) (2009): 138–146, doi:10.1002/stco.200910018.

5. **Charalampakis, A. E.**, Koumousis, V. K., "A Bouc–Wen model compatible with plasticity postulates", Journal of Sound and Vibration, 322 (2009): 954–968, doi:10.1016/j.jsv.2008.11.017.

6. **Charalampakis, A. E.**, Dimou, C. K., "Identification of Bouc–Wen hysteretic systems using Particle Swarm Optimization", Computers and Structures, 88 (2010): 1197–1205, doi:10.1016/j.compstruc.2010.06.009.

7. **Charalampakis, A. E.**, "Full plastic capacity of equal angle sections under biaxial bending and normal force", Engineering Structures, 33(6) (2011): 2085–2090, doi:10.1016/j.engstruct.2011.02.044.

8. **Charalampakis, A. E.**, "Registrar: a complete-memory operator to enhance performance of genetic algorithms", Journal of Global Optimization, 54(3) (2012): 449–483, doi:10.1007/s10898-011-9770-6.

9. **Charalampakis, A. E.**, Dimou, C. K., "Comparison of evolutionary algorithms for the identification of Bouc–Wen hysteretic systems", Journal of Computing in Civil Engineering, ASCE, 29(3) (2015): 04014053, doi:10.1061/(ASCE)CP.1943-5487.0000348.

10. Kontou, E., Kepaptsoglou, K., **Charalampakis, A. E.**, Karlaftis, M. G., "The bus to depot allocation problem revisited: a genetic algorithm", Public Transport, 6(3) (2014): 237–255, doi:10.1007/s12469-013-0078-4.

11. Kottari, A., **Charalampakis, A. E.**, Koumousis, V. K., "A consistent degrading Bouc–Wen model", Engineering Structures, 60 (2014): 235–240, doi:10.1016/j.engstruct.2013.12.025.

12. **Charalampakis, A. E.**, "The response and dissipated energy of Bouc–Wen hysteretic model revisited", Archive of Applied Mechanics, 85(9) (2015): 1209–1223, doi:10.1007/s00419-014-0937-8.

13. Tsiatas, G. C., **Charalampakis, A. E.**, "Optimizing the natural frequencies of axially functionally graded beams and arches", Composite Structures, 160 (2017): 256–266, doi:10.1016/j.compstruct.2016.10.057.

14. **Charalampakis, A. E.**, Chatzigiannelis, I. G., "Analytical solutions for the minimum weight design of trusses by cylindrical algebraic decomposition", Archive of Applied Mechanics, 88(1–2) (2018): 39–49, doi:10.1007/s00419-017-1271-8.

15. Tsiatas, G. C., **Charalampakis, A. E.**, "A new Hysteretic Nonlinear Energy Sink (HNES)", Communications in Nonlinear Science and Numerical Simulation, 60 (2018): 1–11, doi:10.1016/j.cnsns.2017.12.014.

16. **Charalampakis, A. E.**, Tsiatas, G. C., "Effects of Hysteresis and Negative Stiffness on Seismic Response Reduction: A Case Study Based on the 1999 Athens, Greece Earthquake", Frontiers in Built Environment, 4 (2018): 23, doi:10.3389/fbuil.2018.00023.

17. **Charalampakis, A. E.**, Tsiatas, G. C., "A simple rate-independent uniaxial Shape Memory Alloy (SMA) model", Frontiers in Built Environment, 4 (2018): 46, doi:10.3389/fbuil.2018.00046.

18. **Charalampakis, A. E.**, Tsiatas, G. C., "Critical Evaluation of Metaheuristic Algorithms for Weight Minimization of Truss Structures", Frontiers in Built Environment, 5 (2019): 113, doi: 10.3389/fbuil.2019.00113.

19. **Charalampakis, A. E.**, Tsiatas, G. C., Tsopelas, P., "A mass-reduction design concept for seismic hazard mitigation", Earthquake Engineering & Structural Dynamics, 49(3) (2020): 301–314, doi: 10.1002/eqe.3239.

20. **Charalampakis, A. E.,** Tsiatas, G. C., Kotsiantis, S. B., "Machine Learning and Nonlinear Models for the Estimation of Fundamental Period of Vibration of Masonry Infilled RC Frame Structures", Engineering Structures, 216 (2020): 110765, doi: 10.1016/j.engstruct.2020.110765.

21. Tsiatas, G. C., **Charalampakis, A. E.,** Tsopelas, P., "A comparative study of linear and nonlinear mass damping systems under seismic excitation", Engineering Structures, 219 (2020): 110926, doi:10.1016/j.engstruct.2020.110926.

22. **Charalampakis, A. E.,** Papanikolaou, V. K., "Machine Learning design of R/C columns", Engineering Structures, 226 (2021): 111412, doi: 10.1016/j.engstruct.2020.111412. Featured in the "most downloaded articles list" of the journal (report extracted on 10/2/2021).

23. **Charalampakis, A. E.**, Tsiatas, G. C., Tsopelas, P., "Performance of the mass-reduction design of multistory buildings utilizing sliding systems", Journal of Structural Engineering, ASCE, 148(1) (2022): 04021234, doi:10.1061/(ASCE)ST.1943-541X.0003202.

24. Tsiatas, G. C., Kotsiantis, S. B., **Charalampakis, A. E.**, "Predicting the Response of Laminated Composite Beams: A Comparison of Machine Learning Algorithms", Frontiers in Built Environment, 8 (2022), doi: 10.3389/fbuil.2022.855112.

25. **Charalampakis, A. E.**, Tsiatas, G. C., Tsopelas, P., "New insights on rocking of rigid blocks: Analytical solutions and exact energy-based overturning criteria", Earthquake Engineering & Structural Dynamics, 51(9) (2022):1965-1993, doi: 10.1002/eqe.3649.

26. Tsiatas, G. C., **Charalampakis, A. E.**, "Analysis and Design of Laminated Composite Beams based on a Refined Higher-Order Theory", Journal of Composite Materials, 56(19) (2022): 2963-2978, doi: 10.1177/00219983221097175.

D. Publications in conference proceedings

1. **Charalampakis, A. E.**, Koumousis, V. K., "A generic fiber model for the analysis of arbitrary cross sections under biaxial bending and axial load", Proc. 7th International Conference on Engineering Computational Technology, Lisbon, Portugal; 2004.

2. **Charalampakis, A. E.**, Koumousis, V. K., "Ultimate strength analysis of arbitrary cross sections under biaxial bending and axial load by fiber model and curvilinear polygons", Proc. 5th GRACM International Congress on Computational Mechanics, Limassol, Cyprus; 2005.

3. **Charalampakis, A. E.**, Koumousis, V. K., "mySpec: Educational software for structural dynamics and hysteretic systems", Proc. 8th International Conference on Computational Structures Technology, Las Palmas de Gran Canaria, Spain; 2006.

4. **Charalampakis, A. E.**, Koumousis, V. K., "Parameter estimation of Bouc–Wen hysteretic systems using SawTooth Genetic Algorithm", Proc. 5th International Conference on Engineering Computational Technology, Las Palmas de Gran Canaria, Spain; 2006.

5. **Charalampakis, A. E.**, Koumousis, V. K., "Robust identification of Bouc–Wen hysteretic systems by SawTooth GA and Bounding", Proc. Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN) 2007, Rethimno, Crete, Greece; 2007.

6. **Charalampakis, A. E.**, Koumousis, V. K., "Implementing an improved Bouc–Wen model to account for plasticity postulates", Proc. Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN) 2009, Rhodes, Greece; 2009.

7. Kottari, A., **Charalampakis, A. E.**, Koumousis, V. K., "Degrading Bouc–Wen models compatible with plasticity postulates", Proc. 9th HSTAM International Congress on Mechanics, Limassol, Cyprus; 2010.

8. Dimou, C. K., **Charalampakis, A. E.**, "Examination of the performance of PSO algorithm with time–varying population", Proc. 9th HSTAM International Congress on Mechanics, Limassol, Cyprus; 2010.

9. **Charalampakis, A. E.**, Koumousis, V. K., "Parameters of Bouc–Wen model revisited", Proc. 9th HSTAM International Congress on Mechanics, Limassol, Cyprus; 2010.

10. **Charalampakis, A. E.**, Dimou, C. K., "Comparison of Differential Evolution, Particle Swarm Optimization and Genetic Algorithms for the identification of Bouc-Wen hysteretic systems", Proc. 2nd International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering (CSC2011), Chania, Greece; 2011.

11. Dimou, C. K., **Charalampakis, A. E.**, "Reliability-based optimal design of truss structures using Binary Particle Swarm Optimization with time-varying parameters", Proc. 2nd International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering (CSC2011), Chania, Greece; 2011.

12. **Charalampakis, A. E.**, "Introducing full memory in Genetic Algorithms", Proc. 2nd International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering (CSC2011), Chania, Greece; 2011.

13. Tsiatas, G. C., **Charalampakis, A. E.**, "Optimizing the natural frequencies of functionally graded beams and arches", Proc. 11th HSTAM International Congress on Mechanics, Athens, Greece; 2016.

14. **Charalampakis, A. E.**, Chatzigiannelis, I. G., "Analytical weight minimization of trusses using Cylindrical Algebraic Decomposition", Proc. 11th HSTAM International Congress on Mechanics, Athens, Greece; 2016.

15. **Charalampakis, A. E.**, "Comparison of metaheuristic algorithms for size optimization of trusses", Proc. 11th HSTAM International Congress on Mechanics, Athens, Greece; 2016.

16. Tsiatas, G. C., **Charalampakis, A. E.**, "Numerical investigation of a highly effective hysteretic nonlinear energy sink in shock mitigation", Proc. 9th GRACM International Congress on Computational Mechanics, Chania, Greece; 2018.

17. **Charalampakis, A. E.**, Tsiatas, G. C., Tsopelas, P. "Innovative seismic protection system for multistory buildings using floating slabs", Proc. 4th Panhellenic Congress on Seismic Engineering and Engineering Seismology, Athens, Greece; 2019.

18. **Charalampakis, A.E.**, Tsiatas, G.C., Tsopelas P. "Investigation of floating slabs for both local seismic isolation and global mass damping", Proc. 12th HSTAM International Congress on Mechanics, Thessaloniki, Greece; 2019.

19. Tsiatas, G.C., **Charalampakis A.E.**, Tsopelas, P. "Seismic response of structures equipped with linear and nonlinear mass damping systems", Proc. 12th HSTAM International Congress on Mechanics, Thessaloniki, Greece; 2019.

20. Papanikolaou, V.K., **Charalampakis, A.E.** "Rapid design of R/C columns using Machine Learning techniques", Proc. 8th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2021, Athens, Greece; 2021.

21. **Charalampakis, A.E.**, Tsiatas, G.C., Tsopelas P. "The mass-reduction design concept utilizing frictional isolators", Proc. 10th GRACM International Conference on Computational Mechanics (GRACM 2021), Athens, Greece; 2021.

22. **Charalampakis, A.E.**, Tsiatas, G.C., Tsopelas P. "The mass-reduction design concept in earthquake engineering", Proc. 13th HSTAM International Congress on Mechanics, Patras, Greece; 2022.

23. **Charalampakis, A. E.**, Tsiatas, G. C., Tsopelas, P. "New solutions to an old problem: Rocking of rigid blocks", Proc. 5th Panhellenic Congress on Seismic Engineering and Engineering Seismology, Athens, Greece; 2022.

E. Books

1. F. Fotopoulos, **A. Charalampakis**, "Applications of computational hydraulics", TechnoLogismiki, 2005, ISBN:960–88473–0–3.

2. F. Fotopoulos, **A. Charalampakis**, "Design of hydraulic works", TechnoLogismiki, 2008, ISBN:978–960–88473–1–6.

3. F. Fotopoulos, **A. Charalampakis**, "Applications of computational hydraulics", TechnoLogismiki, second edition, 2014, ISBN:978–960–88473–2–3.

F. Presentations in international symposia

1. **Charalampakis, A. E.**, Koumousis, V. K., "Compliance of the Bouc-Wen model with plasticity postulates", 4th Greek–Serbian Symposium, Vlasina Lake, Serbia; 2011.

2. **Charalampakis, A. E.**, "The response and dissipated energy of Bouc–Wen hysteretic model revisited", 8th German–Greek–Polish Symposium, Goslar, Germany; 2013.

3. **Charalampakis, A. E.**, "Analytical minimum weight design of trusses using Cylindrical Algebraic Decomposition", 9th German–Greek–Polish Symposium, Kolympari, Crete, Greece; 2016.

G. Course notes

1. F. Fotopoulos, **A. Charalampakis** (1996) "Ordinary differential equations", Diagramma, Athens.

2. F. Fotopoulos, **A. Charalampakis** (1996) "Fortran", Diagramma, Athens.

3. F. Fotopoulos, **A. Charalampakis** (1996) "Basic", Diagramma, Athens.

4. F. Fotopoulos, **A. Charalampakis** (1996) "Materials II", Diagramma, Athens.

5. F. Fotopoulos, **A. Charalampakis** (1996) "Statistics", Diagramma, Athens.

6. F. Fotopoulos, **A. Charalampakis** (1996) "Probabilities", Diagramma, Athens.

7. F. Fotopoulos, **A. Charalampakis** (1996) "Macroeconomy", Diagramma, Athens.

8. F. Fotopoulos, **A. Charalampakis** (1996) "Chemistry", Diagramma, Athens.

9. F. Fotopoulos, **A. Charalampakis** (1996) "Engineering Law", Diagramma, Athens.

10. F. Fotopoulos, **A. Charalampakis** (1996) "Ecology", Diagramma, Athens.

11. F. Fotopoulos, **A. Charalampakis** (1997) "Mechanics", Diagramma, Athens.

12. **Charalampakis, A. E.,** (2015) "Steel structures I", Gediz University, Izmir, Turkey.

13. **Charalampakis, A. E.,** (2015) "Design of steel structures", Gediz University, Izmir, Turkey.

14. **Charalampakis, A. E.**, (2016) "Steel structures II", Gediz University, Izmir, Turkey.

15. **Charalampakis, A. E.,** (2016) "Reinforced concrete II", Gediz University, Izmir, Turkey.

16. **Charalampakis, A. E.,** (2016) "Design of reinforced concrete structures", Gediz University, Izmir, Turkey.

17. **Charalampakis, A. E.,** (2016) "Steel structures companion", Gediz University, Izmir, Turkey.

18. **Charalampakis, A. E.,** (2016) "Reinforced concrete structures companion", Gediz University, Izmir, Turkey.

H. Other publications

1. **Charalampakis, A.E.**, mySpec: analysis of a SDoF of 2DoF systems. National Technical University of Athens; 2003.

2. **Charalampakis, A.E.**, myBiaxial 2.0: analysis of arbitrary composite sections in biaxial bending and axial load. National Technical University of Athens; 2005.

3. **Charalampakis, A.E.**, myBWID: identification of Bouc-Wen hysteretic systems. National Technical University of Athens; 2008.

4. **Charalampakis, A.E.**, myBWMod: implementation of a modified Bouc-Wen model. National Technical University of Athens; 2009.

IV. Bibliometric data & citations

The citations were extracted from Google Scholar (with self-citations) and Scopus (with self-citations and without citations from all authors) on 25/5/2022.

A. Number of authors per journal paper

Number of authors per journal paper

One: 11.54%

Four: 3.85%

Three: 30.77%

Two: 53.85%

B. Author position per journal paper

Author position per journal paper

Third: 7.69%

Second: 23.08%

First: 69.23%
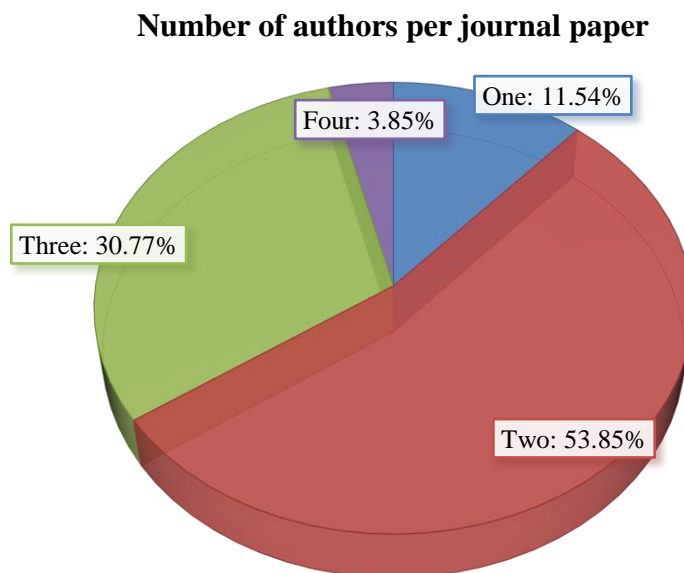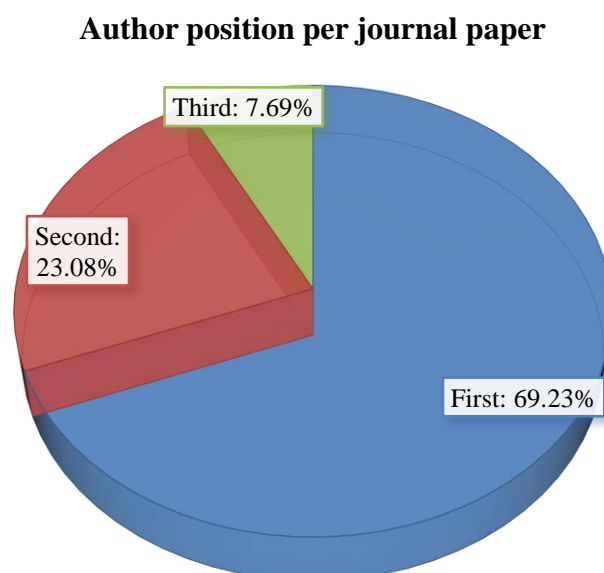
C.   Paper citations

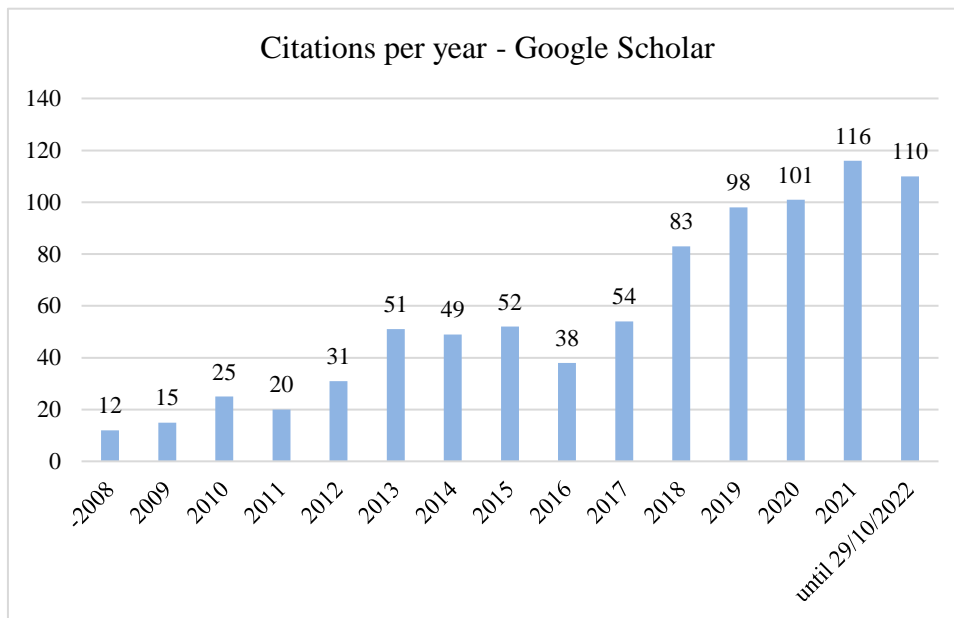| Paper	Citations in:		
	Google Scholar	**Scopus**	**Scopus excl. self citations**
Sum:	855	583	495
C1 Charalampakis, A. E., Koumousis, V. K., "Ultimate strength analysis of composite sections under biaxial bending and axial load", Advances in Engineering Software, 39 (2008): 923–936, doi:10.1016/j.advengsoft.2008.01.007	82	54	48
C2 Charalampakis, A. E., Koumousis, V. K., "Identification of Bouc–Wen hysteretic systems by a hybrid evolutionary algorithm", Journal of Sound and Vibration, 314 (2008): 571–585, doi:10.1016/j.jsv.2008.01.018	159	125	107
C3 Charalampakis, A. E., Koumousis, V. K., "On the response and dissipated energy of Bouc–Wen hysteretic model", Journal of Sound and Vibration, 309 (2008): 887–895, doi:10.1016/j.jsv.2007.07.080	81	57	48
C4 Vayas, I., Charalampakis, A. E., Koumousis, V. K., "Inelastic resistance of angle sections subjected to biaxial bending and normal forces", Steel Construction 2(2) (2009): 138–146, doi:10.1002/stco.200910018	18	-	-
C5 Charalampakis, A. E., Koumousis, V. K., "A Bouc–Wen model compatible with plasticity postulates", Journal of Sound and Vibration, 322 (2009): 954–968, doi:10.1016/j.jsv.2008.11.017	70	43	31
C6 Charalampakis, A. E., Dimou, C. K., "Identification of Bouc–Wen hysteretic systems using Particle Swarm Optimization", Computers and Structures, 88 (2010): 1197–1205, doi:10.1016/j.compstruc.2010.06.009	108	90	83
C7 Charalampakis, A. E., "Full plastic capacity of equal angle sections under biaxial bending and normal force", Engineering Structures, 33(6) (2011): 2085–2090, doi:10.1016/j.engstruct.2011.02.044	16	11	11
C8 Charalampakis, A. E., "Registrar: a complete-memory operator to enhance performance of genetic algorithms", Journal of Global Optimization, 54(3) (2012), 449–483, doi:10.1007/s10898-011-9770-6	9	7	5
C9 Charalampakis, A. E., Dimou, C. K., "Comparison of evolutionary algorithms for the identification of Bouc-Wen hysteretic systems", Journal of Computing in Civil Engineering, ASCE, 04014053 (2013), doi:10.1061/(ASCE)CP.1943-5487.0000348	16	11	9
C10 Kontou, E., Kepaptsoglou, K., Charalampakis, A. E., Karlaftis, M. G., "The bus to depot allocation problem revisited: a genetic algorithm", Public Transport, 6(3) (2014): 237–255, doi:10.1007/s12469-013-0078-4	9	6	6

	Paper	Citations in:		
		Google Scholar	Scopus	Scopus excl. self citations
C11	Kottari, A., Charalampakis, A. E., Koumousis, V. K., "A consistent degrading Bouc–Wen model", Engineering Structures, 60 (2014): 235–240, doi:10.1016/j.engstruct.2013.12.025	44	33	24
C12	Charalampakis, A. E., "The response and dissipated energy of Bouc–Wen hysteretic model revisited", Archive of Applied Mechanics, 85(9) (2015): 1209–1223, doi:10.1007/s00419-014-0937-8	33	23	19
C13	Tsiatas, G. C., Charalampakis, A. E., "Optimizing the natural frequencies of axially functionally graded beams and arches", Composite Structures, 160 (2017): 256–266, doi:10.1016/j.compstruct.2016.10.057	48	35	33
C14	Charalampakis, A. E., Chatzigiannelis, I. G., "Analytical solutions for the minimum weight design of trusses by cylindrical algebraic decomposition", Archive of Applied Mechanics, 88(1–2) (2018): 39–49, doi:10.1007/s00419-017-1271-8.	29	8	7
C15	Tsiatas, G. C., Charalampakis, A. E., "A new Hysteretic Nonlinear Energy Sink (HNES)", Communications in Nonlinear Science and Numerical Simulation, 60 (2018): 1–11, doi:10.1016/j.cnsns.2017.12.014.	31	30	27
C16	Charalampakis, A. E., Tsiatas, G. C., "Effects of Hysteresis and Negative Stiffness on Seismic Response Reduction: A Case Study Based on the 1999 Athens, Greece Earthquake", Frontiers in Built Environment, 4 (2018): 23, doi: 10.3389/fbuil.2018.00023.	4	4	2
C17	Charalampakis, A. E., Tsiatas, G. C., "A simple rate-independent uniaxial Shape Memory Alloy (SMA) model", Frontiers in Built Environment, 4 (2018): 46, doi: 10.3389/fbuil.2018.00046.	5	5	3
C18	Charalampakis, A. E., Tsiatas, G. C., "Critical Evaluation of Metaheuristic Algorithms for Weight Minimization of Truss Structures", Frontiers in Built Environment, 5 (2019): 113, doi: 10.3389/fbuil.2019.00113.	7	7	6
C19	Charalampakis, A. E., Tsiatas, G. C., Tsopelas, P., "A mass-reduction design concept for seismic hazard mitigation", Earthquake Engineering & Structural Dynamics, (2019): 1 14, doi: 10.1002/eqe.3239.	6	5	4
C20	Charalampakis, A. E., Tsiatas, G. C., Kotsiantis, S. B., "Machine Learning and Nonlinear Models for the Estimation of Fundamental Period of Vibration of Masonry Infilled RC Frame Structures", Engineering Structures, 216 (2020): 110765, doi: 10.1016/j.engstruct.2020.110765.	10	8	7
C21	Tsiatas, G. C., Charalampakis, A. E., Tsopelas, P., "A comparative study of linear and nonlinear mass damping systems under seismic excitation", Engineering Structures, 219 (2020): 110926, doi:10.1016/j.engstruct.2020.110926.	4	4	3

	Paper	Citations in:		
		Google Scholar	**Scopus**	**Scopus excl. self citations**
C22	Charalampakis, A. E., Papanikolaou, V. K., "Machine Learning design of R/C columns", Engineering Structures, 226 (2021): 111412, doi: 10.1016/j.engstruct.2020.111412.	9	9	7
C23	Charalampakis, A. E., Tsiatas, G. C., Tsopelas, P., "Performance of the mass-reduction design of multistory buildings utilizing sliding systems", Journal of Structural Engineering, ASCE, doi:10.1061/(ASCE)ST.1943-541X.0003202	1	1	1
C24	Tsiatas, G. C., Kotsiantis, S. B., Charalampakis, A. E., "Predicting the Response of Laminated Composite Beams: A Comparison of Machine Learning Algorithms", Frontiers in Built Environment, 8 (2022), doi: 10.3389/fbuil.2022.855112.	2	2	0
D2	Charalampakis, A. E., Koumousis, V. K., "Ultimate strength analysis of arbitrary cross sections under biaxial bending and axial load by fiber model and curvilinear polygons", Proc. 5th GRACM International Congress on Computational Mechanics, Limassol, Cyprus; 2005.	3	-	-
D4	Charalampakis, A. E., Koumousis, V. K., "Parameter estimation of Bouc–Wen hysteretic systems using SawTooth Genetic Algorithm", Proc. 5th International Conference on Engineering Computational Technology, Las Palmas de Gran Canaria, Spain; 2006.	11	5	4
D7	Kottari, A., Charalampakis, A. E., Koumousis, V. K., "Degrading Bouc–Wen models compatible with plasticity postulates", Proc. 9th HSTAM International Congress on Mechanics, Limassol, Cyprus; 2010.	1	-	-
D9	Charalampakis, A. E., Koumousis, V. K., "Parameters of Bouc–Wen model revisited", Proc. 9th HSTAM International Congress on Mechanics, Limassol, Cyprus; 2010.	26	-	-
D10	Charalampakis, A. E., Dimou, C. K., "Comparison of Differential Evolution, Particle Swarm Optimization and Genetic Algorithms for the identification of Bouc Wen hysteretic systems", Proc. 2nd International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering (CSC2011), Chania, Greece; 2011.	4	0	-
D15	Charalampakis, A. E., "Comparison of metaheuristic algorithms for size optimization of trusses", Proc. 11th HSTAM International Congress on Mechanics, Athens, Greece; 2016.	9	-	-

D.   Google Scholar

Link	user=BBtnkDwAAAAJ
Citations	855
Citations (2017-)	565

h-index	14
h-index (2017-)	13
i10-index	16
i10-index (2017-)	14

Citations per year - Google Scholar

Year	Citations
-2008	12
2009	15
2010	25
2011	20
2012	31
2013	51
2014	49
2015	52
2016	38
2017	54
2018	83
2019	98
2020	101
2021	116
until 29/10/2022	110

E.   Scopus

Link	authorId=22952886900
Citations	583
	495 (excluding citations by all authors)
h-index	10

Citations per year - Scopus
(excluding citations by all authors)
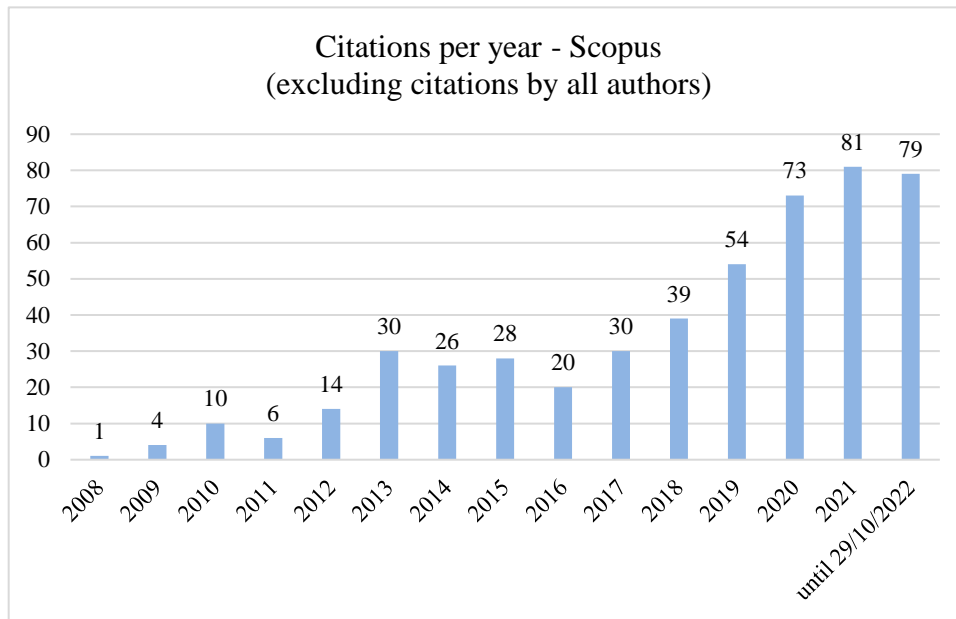
F. Citescore metrics

CiteScore metrics by Scopus.
CiteScore 2020 metrics calculated per 5 May 2021.
Data extracted on 17/8/2021.

Journal title	No. of papers	CiteScore	SNIP	SJR	Scopus ASJC Code (Sub-subject)	Percentile	Top 10% (CiteScore Percentile)
Advances in Engineering Software	1	10.1	2.501	1.136	2200	97	TRUE
Earthquake Engineering & Structural Dynamics	2	8.8	2.442	2.218	1901	95	TRUE
Communications in Nonlinear Science and Numerical Simulation	1	7.9	1.775	1.159	2604	97	TRUE
Composite Structures	1	9.6	2.04	1.63	2205	96	TRUE
Computers and Structures	1	8	1.931	1.45	2205	93	TRUE
Journal of Computing in Civil Engineering	1	7.6	1.588	0.936	2205	92	TRUE
Engineering Structures	5	6.9	2.25	1.567	2205	90	TRUE
Journal of Sound and Vibration	3	7.1	1.923	1.315	2211	90	TRUE
Journal of Structural Engineering	1	5.2	1.875	1.598	2205	81	FALSE

Journal title	No. of papers	CiteScore	SNIP	SJR	Scopus ASJC Code (Sub-subject)	Percentile	Top 10% (CiteScore Percentile)
Journal of Global Optimization	1	3.7	1.532	0.861	2604	80	FALSE
Public Transport	1	4.2	1.415	0.86	1803	70	FALSE
Archive of Applied Mechanics	2	3	1.049	0.54	2210	61	FALSE
Frontiers in Built Environment	4	2.6	1.013	0.511	2215	60	FALSE
Steel Construction	1	1.9	0.668	0.443	2215	49	FALSE
Journal of Composite Materials	1	4.1	1.072	0.608	2211	68	FALSE

V. Professional activities

A. Projects

Numerous projects completed as a self-employed engineer and consultant, including (indicatively):

- design and construction of 35m-high lighting poles for three stadiums (Korinthos national stadium, Elefsina stadium, Kerkyra national stadium)

- design and construction of numerous large-size outdoor media (up to 30m x 10m)

- design of community centers, school libraries and school sport centers

- design and construction of several industrial buildings

- design of the foundation of several large solar panel installations

B. Software

Co-founder, co-owner and active programmer with Technologismiki (www.technologismiki.com), a software house which develops and maintains more than 25 commercial programs for engineers, including (indicatively):

- Biaxial Bending, a program that analyzes arbitrary sections in biaxial bending and axial load. Any problem can be analyzed in which the Euler-Bernoulli assumption that plane sections remain plane after bending holds, such as R/C sections with any reinforcement arrangement, steel sections (elastic & plastic analysis), composite sections with embedded steel sections, holes of any size and shape, different confinement regions, repaired sections, etc.

- xlOptimizer, a generic optimization tool that uses Microsoft Excel as a computational platform. Practically any problem that can be formulated in a spreadsheet can be tackled by this program, with the optional use of VBA and external DLLs which greatly extends the scope of application. It implements a host of customizable, state-of-the-art Evolutionary and Swarm Intelligence Algorithms, homogenized and arranged in an intuitive interface.

- Hackman, a multi-purpose advanced hex editor, disassembler and template editor with more than 1.2 million downloads in download.com.

- Several large-scale programs for the design of civil infrastructure works (sewer networks, water networks, river flow) with embedded optimization modules, TIN models, environmental models, marine design tools, financial tools, etc.